

Dart Hawkesbury 1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada Tel (613) 632-5200

Purchasing Receipts

Quenched &Tempered Steel Round Bar 2.500"* Dia.: AISI 4140 Q&T Round Bar: MAT'L: AISI 4130 QUENCHED & TEMPERED ROUND BAR AS PER ASTM 4140 QT OR ASTM 4142	PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging Days	Past Due	To
	PO039811	AC1001-VC	3	1		R2.500	Quenched &Tempered Steel Round Bar 2.500"" Dia.: AISI 4140 Q&T Round Bar : MAT'L: AISI 4130 QUENCHED & TEMPERED ROUND BAR AS PER ASTM 4140 QT OR				6	5/28/2018	6		\$075047	Stock	5/28/2018	\$ 26.86 / ft	0		S

Plex 5/28/2018 1:00 PM Dart Dubois Pascal



Dart Aerospace Ltd. 1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada

PURCHASE ORDER PO039811

Tel (613) 632-5200

Supplier:

ACI001-VC

Acier Ouellette Inc. 935 Boul. Du Havre

Valleyfield

QC

J6S 5L1 Canada Phone: 800 667 4248

Fax: 450 377 5696

PO No:

PO039811

PO Date:

5/14/18 5/11/18

Due Date: Purchase Order .

Revision:

Revision Date:

Ship-To Contact:

Lavoie, ChantalPhone:

clavoie@dartaero.com

Ship To:

1270 Aberdeen Street

Hawkesbury

ON

K6A 1K7 Canada Phone: 613-632-5200 Via:

Ground

Pymt Terms:

Net 30

Freight Terms:

Special Comments: QUOTE NO. SOU0104308, SOU0104119

				Items	;					
Line Item		Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
3	MT- 4140QT- R2.500		AISI 4140 Quenched &Tempered Steel Round Bar 2.500" Dia. : AISI 4140 Q&T Round Bar : MAT'L: AISI 4130 QUENCHED & TEMPERED ROUND BAR AS PER ASTM 4140 QT OR ASTM 4142 QT	Firmed	5/11/18	.6 ft	6	6 ft	\$26.8612666/ft MAY 2 8 2	
5	MT- 4140QT- R0.500		AISI 4140 Quenched &Tempered Steel Round Bar 0.500" Dia. : AISI 4140 Q&T Round Bar	Firmed	5/11/18	6 ft	Oft	6 ft	\$3.345/ft	\$20.07

: MAT'L: AISI 4130 QUENCHED & TEMPERED ROUND BAR AS

ASTM 4140 QT OR ASTM 4142

QT

MAY 1 0 2018

Grand Total:

\$181.24

Order Notes

Procurement Quality Clauses

A005 right of entry

A012 chemical and physical test report

A016 personnel qualification

A017 raw material identification (as applicable)

A026 certification of material conformance

A041 quality management system

A042 dart notification by supplier

A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 5/10/18 7:50 AM dart.lavoie.chantal

DAS 11 9-89

DAS 9-189

Billed to

Shipped to

, Ontario,

DART AEROSPACE LTD

HAWKESBURY, Ontario, K6A 1K7

1270, ABERDEEN ST.

DELIVERY - CLIENT

935, Boul. du Hâvre Salaberry de Valleyfield (Québec) J6S 5L1 Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248

ACIER OUELLETTE INC.

Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Date Delivery date **Customer N°** 2018/05/24 CLI0001056 2018/05/28

Your order N° Processed by Eric Kaehlert PO039811

Salesman

OUELLETTE VALLEYFIELD

Carrier

Net 30 Days

Page **Credit Terme**

Att: CHANTAL LAVOIE Tél.: 613-632-5200

Instruction F-M Product Description	Delivery Route Weight	5	Y N	Page	PCS NB	8	ь	Internal Use Only	se Only
r roance pescription	Weight	νίλ	0/14	CMD	EXP	В/0	IN	ISI	0
1 ROUND 4140 HEAT TREAT 2 1/2 (R) R4140-212H 4923	100.14	6.00	PI_\$CLB		2		106"	,	- 1
COUPE A LA SCIE SCIE 1		1.00	CN				6	MAY 2 8	1-0
1×6'									
LINE #3									
				* 141-141	100				
Conditions:	Total Weight (Lbs): 100.14	bs): 100.14		NIR : R-109516-6)9516-6				- 11

Conditions:

a 25% restocking charge. All sold and delivered materials remain the property of "Acier Ouellette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to Prepared By: Verified By: Delivered

stomer's Signature	
	— ~
Date	
rD	

Total (\$CAD)

Eaton Steel Bar Company Inspection Certificate 1670723

EN 10204:2004-3.1

218329 28-Sep-2017 B38179 11140 rev 005 506289 2-1/2 HR RD 4140/4	Customer BOL Ship Date Customer PO Item Customer Item Description
2-1/2 HR RD 4140/42MM 24ft8in SBQ QTSF FG MST	Item Description

All bundles listed below were produced using steel from Heat 75068192 issued by GERDAU-MONROE and were completed from Eaton Steel Job 822253.

Carbon 0.40000 PMGT TENSILE 951	Chemistry	Description	Value	Units	Mechanical	Description	Value	Units
Manganese	C	Carbon	0.40000	PWGT	TENSILE PSI	Tensile Strength in PSI Units	131500	ISd
Phosphorus	Mn	Manganese	0.86000	PWGT	YIELD PSI	Yield Strength in PSI Units	110000	PSI
Sulfur O.22300 PMGT REDUCTION REDUCTION NICKEL O.25000 PMGT REDUCTION NICKEL O.25000 PMGT Half Healing Half Heali	ק	Phosphorus	0.00800	PWGT	ELONGATION	Percent Elongation	23.00	PCT
Silicon	S	Sulfur	0.02100	PWGT	REDUCTION	Percent Reduction in Area	64.0	EQ.
Nickel	Si	Silicon	0.25000	PWGT	BRINELL SURF		297.0	BHN
Chromium	IN.	Nickel	0.16000	PWGT	Heat Treating	Description	Value	Units
Mollybdenum	B	Chromium	1.01000	PWGT		Temper Temp in Fahrenheit	500 - 2500	DEGF
Aluminum	Мо	Molybdenum	0.17000	PWGT			1600 - 1700	DEGF
Copper	AL	Aluminum	0.02400	PWGT	SR TEMP F	Stress Relief Temp in Fahrenheit	500 - 2500	DEGF
Variadium	5	Copper	0.19000	PWGT	MAGNETISM-HT	Magnetism in Gauss	0 - 20	GN.
	<	Vanadium	0.00400	PWGT	TIME AT TEMP	Time at Temperature	Report	
	B	Columbium	0.00100	TDWGT	STRESS FREE		CERTIFIED	
Element Sum Limit	N	Nitrogen	0.00000	PWGT	HT4140-42QT	Quench & Temper	CONFORMS	
Ideal Diameter	P+S	Sum	0.02900	PWGT	Mill Processing	Description	Value	Units
Description Value	DI	Ideal Diameter	5.32000	IN	MELT COUNTRY	Melted in Country	ASU	
Report macro atch results. Value Units	Cleanliness	Description	Value	Units	ROLLED COUNTRY	Rolled in Country	USA	
Description	MACRO ETCH	Report macro etch results.			RED RATIO	Reduction Ratio	13.70	RBD
MMETER Diameter 2.5000 - 2.5313 IN A29/A29M-16 miny Description Value Units A196 inch from Quenched End A19 (inch from Quenched End A19 (inch from Quenched End A29/A39M-01 2/16 inch from Quenched End 56 HRC A374-90a-BC 3/16 inch from Quenched End 56 HRC Structure 4/16 inch from Quenched End 56 HRC Structure 5/16 inch from Quenched End 56 HRC Structure 4/16 inch from Quenched End 56 HRC MICROSTRUCTURE 9/16 inch from Quenched End 56 HRC Tag Number 0 10/16 inch from Quenched End 54 HRC 11/16 inch from Quenched End 53 HRC 11/16 inch from Quenched End 49 HRC 12/16 inch from Quenched End 49 HRC 18/16 inch from Quenched End 47 HRC 18/16 inch from Quenched End 45 HRC 18/16 inch from Quenched End 45 HRC 20/16 inch from Quenched End <td>Geometry</td> <td>Description</td> <td>Value</td> <td>Units</td> <td>ASTM Standard</td> <td>Description</td> <td>Value</td> <td>Units</td>	Geometry	Description	Value	Units	ASTM Standard	Description	Value	Units
Description	DIAMETER	Diameter	2.5000 - 2.5313	IN	A29/A29M-16	Steel Bars, Carbon & Alloy, Hot Wrought	CONFORMS	
1/16 inch from Quenched End 56 HRC 2/16 inch from Quenched End 55 HRC 2/16 inch from Quenched End 55 HRC 2/16 inch from Quenched End 53 HRC 2/16 inch from Quenched End 52 HRC 2/16 inch from Quenched End 50 HRC 2/16 inch from Quenched End 49 HRC 2/16 inch from Quenched End 49 HRC 44 HRC 44 HRC 2/16 inch from Quenched End 45 HRC 46 HRC 47 HRC 47	Jominy	Description	Value	Units	A193/193M-01	Grade B7	CONFORMS	
2/16 inch from Quenched End 56	JI		56	HRC	A434-90a-BC	ASTMA BC Tensile and Yield properties	CONFORMS	
3/16 inch from Quenched End 56	J2 .	2/16 inch from Quenched End	56	HRC	Structure	Description	Value	Units
4/16 inch from Quenched End 56	J3	inch	56	HRC	PERCENT TM	Percent Tempered Martensite	80 - 100	PCT
5/16 inch from Quenched End 56	J4	inch	56	HRC	MICROSTRUCTURE	Reported Microstructure	MI	
6/16 inch from Quenched End 56 HRC 7/16 inch from Quenched End 55 HRC 8/16 inch from Quenched End 54 HRC 10/16 inch from Quenched End 53 HRC 10/16 inch from Quenched End 52 HRC 11/16 inch from Quenched End 52 HRC 11/16 inch from Quenched End 49 HRC 12/16 inch from Quenched End 47 HRC 16/16 inch from Quenched End 45 HRC 20/16 inch from Quenched End 45 HRC 20/16 inch from Quenched End 45 HRC 20/16 inch from Quenched End 47 HRC 20/16 inch from Quenched End 47 HRC 20/16 inch from Quenched End 48 HRC 21/16 inch from Quenched End 49 HRC 21/16 inch from Quenched End 40 HRC 21/16 inch from Quenched End 47 HRC 21/16 inch from Quenched End 48 HRC 21/16 inch from Quenched End 49 HRC 21/16 inch from Quenched End 40 HRC 21/16 inch from Quenched End 41 HRC 21/16 inch from Quenched End 42 HRC 21/16 inch from Quenched End 47 HRC 21/16 inch from Quenched End 47 HRC 21/16 inch from Quenched End 48 HRC 21/16 inch from Quenched End 49 HRC 21/16 inch from Quenched End 40 HRC 21/16 inch from Quenched End 41 HRC 21/16 inch from Quenched End 42 HRC 21/16 inch from Quenched End 47 HRC 21/16 inch from Quenched End 48 HRC 21/16 inch from Quenched End 49 HRC	JS	inch	56	HRC	Tag Number	Oty Units	Length	
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22/16 inch from Quenched End 44 24/16 inch from Quenched End 42 28/16 inch from Quenched End 40 32/16 inch from Quenched End 37	J20	inch	44	HRC				
24/16 inch from Quenched End 42 28/16 inch from Quenched End 40 32/16 inch from Ouenched End 37	J22	inch	44	HRC				
28/16 inch from Quenched End 40 32/16 inch from Quenched End 37	J24	inch	42	HRC				
32/16 inch from Ouenched End	J28	28/16 inch from Quenched End	40	HRC				
	J32	32/16 inch from Quenched End	37	HRC				

Bundle tags with Eaton Steel Identifiers reference the steel grade, heat, purchase order number where applicable, part number, product description and quantity. Material produced in accordance with Eaton Steel's Quality Manual QM-00002 Rev 0 dated 11/21/2013.

Thomas Snabes, Corporate Metallurgist Created on 28-Sep-2017 We hereby certify the above to be in conformance, and a true copy of data represented in company records. This steel was not subject to weld repair or exposed to mercury while in the possession of Eaton Steel 10221 Capital Avenue, Oak Park, MI 48237 USA

Tel: 248-398-3434

GERDAU SPECIAL STEEL NORTH AMERICA 5591 MORRILL ROAD JACKSON, MICHIGAN 49201

163386 DAN MCNAUGHTON
EATON STEEL CORPORATION
10221 CAPTAL 10911/4140/42MM CERTIFIED MATERIAL TEST REPORT EATON STEEL CORPORATION C/O APOLLO HEAT TREAT 10400 CAPITAL STREET 75068192 31 210mm Billet 01 47BS 312585 102

OAK PARK , MI 48237

OAK PARK , MI 48237

TIEM 10911 REV 10 DTD 02/26/14; A304-16; A322-13 4140/42MM 1/2" SIEE ORDERED RAND 24' 10"

HARDENABILITY GRAIN SIZE 0.40 0.004 0.001 < 0 0.86 N Z C 0.008 4 SPECIFICATION ASTM A255/A304 SPECIFICATION ASTM E112 0.021 0.25 ເດ CHEMICAL ANALYSIS Si 0.16 Ni 1.01 Cr FINE GRAIN 5-8 0.17 30 0.19 Ch 0.009 Sn 0.024 Al

CONTINUED ON PAGE 2

Gerdau Montoe 3000 East Front

We certi

compliance with specified requirements

Patrick Doyle

REDUCTION RATIO

SPECIFICATION ITEM 10911

5.32

RATIO= 13.7 TO

1.0

DI CALCULATION

SPECIFICATION CAT 1E0024

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GERDAU SPECIAL STEEL NORTH AMERICA 5591 MORRILL ROAD JACKSON, MICHIGAN 49201

163386 EATON STEEL CORPORATION DAN MCNAUGHTON CUSTONER ORDER NUMBER 10911/4140/42MM CERTIFIED MATERIAL TEST REPORT EATON STEEL CORPORATION C/O APOLLO HEAT TREAT 10400 CAPITAL STREET 75068192 210mm Billet SHIP TO мом одоня монтия 312585 102

OAK PARK , MI 48237

10221 CAPTAL

OAK PARK , MI 48237

TTEM 10911 REV 10 DTD 02/26/14; A304-16; A322-13 4140/42MM ORDERED RND 24' 10"

ASTM E381 MACRO ETCH SATISFACTORY: S1/R1/C1; MEETS SAE J422

\$5/05 RATING (WORST FIELD);

** MATERIAL 100% MELTED AND MANUFACTURED IN THE U.S.A. BY THE ELECTRIC ARC FURNACE AND CONTINUOUS CASTING METHOD. THE PRODUCT HAS NOT BEEN REPAIRED BY WELDING AND THIS MATERIAL HAS NOT BEEN EXPOSED TO MERCURY OR TO ANY OTHER METAL ALLOY THAT IS LIQUID AT AMBIENT TEMPERATURES DURING PROCESSING OR WHILE IN OUR POSSESSION.

GERDAU MONITORS ALL INCOMING SCRAP AND ALL HEATS OF STEEL TO ENSURE THAT PRODUCTS SHIPPED ARE FREE OF RADIOACTIVE MATERIAL. RESIDUAL MIN RESIDUAL MAX P+S = 0.0290 P+S = 0.0290SPECIFICATION ITEM 10911 SPECIFICATION ITEM 10911

We certify that these database correct and in compliance with specified requirements.

Gerdau Monroe

Talla Dayl Panick Doyle
3000 East Front Street Monroe, MI 48161 hality Assurance Representative



10221 Capital Avenue Oak Park Mi 48237 (248)543-3578 telephone (248)398-1434 facsimle

10400 Capital Avenue

Randy Call Oak Park, MI

Attn:

rcall@apoliohtp.com

Ship To: Apollo Heat Treating and Processing Company, L.L.C 10400 Capital Avenue

Report Date: Oak Park, MI 9/12/2017

Report ID: 17-3553

Request ID:

Work Order 822253

This record contains results for the indicated services performed on the following semicists:

Part No. 11140

Part No. 12140

Ten sindigipas il Hange de Las Salounomors importante de la company

822253 JOB 2944

Report Approved By: Steve Avery

grave Avery

17-3653-1

75068192

Mechanical Testing

ASTM E8M-168

ASTM E10-158

17-3653-1 131,500

110,000

Mechanicals tested at Midradius Test Comments

contain lumin that a section marked with " are not part of Titan Metallurgy"s current A2LA accreditation.

Report ID:17-3553

Page 1 of 1



10400 Capital Avenue •Oak Park, Michigan 48237 •(248) 398-3434

CERTIFICATION OF HEAT TREATMENT

Date: 9 / 18 / 2017
Certification Number: 17 - 0642
Customers Order Number: 822253
Part Number: 10614 - 11140
Heat Number: 75068192
Heat Treat Job Number: 2944

Quantity+57 Pcs.
Weight: 23,849 Lbs.
Description: 2.5000" Diameter x 24' 9" Length
Per Specification: ESHT HT4140-42QT

Material: 4140

Temper Temper Austenitized/Hardened Preheat Spray Quenched Normalized 103.7 °F - 104.4 °F Temperature 1550 °F N/A N/A 1200 °F 1 Hour 30 Minutes Time at Heat 55 Minutes Air Cooled to Ambient Coolant Water

Method of heat treat monitor, set point thermocouple (Type K). Equipment calibrated per AM\$2750E. We hereby certify the above material has been treated in the manner described are correct as contained in the records of Apollo Heat Treating and Processing, LLC.

Randy L. Call

Plant Manager

Apollo Heat Treating & Processing, LLC

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT-4	1140G N 2 8 20	t-R2.	800	PO / BATCH	no.: <u>Q3981</u>	1 /507504
MATERIAL CERT REC'D: QUANTITY RECEIVED: QUANTITY INSPECTED: QUANTITY REJECTED:	65		THIC	KNESS ORDEI KNESS RECEI ET SIZE ORDEI ET SIZE RECEI	VED: 2.5 RED: <i>N</i>	00 A A
DESCRIPTION	NCR (Check Y/N)			COMMENT	ΓS	
SURFACE DAMAGE	Y (N)					
CORRECT FINISH	(Y) N			N. V		
CORROSION	YNO					
CORRECT GRAIN DIRECTION	Y/ N					
CORRECT MATERIAL PER M-DRAWING	N	41400	2T-420	XT		
CORRECT THICKNESS (AIR			-		
PHOTO REQUIRED	A (N)	d	1		***	
CORRECT REF # TO LINK CERT	NN	11.001	17506	8142	the stages	
and the same of th	N (A)					
241	(Y) N					
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)					
DOES THIS REQUIRE AN EXTRUSION REPORT	YK					
					7.9	
CUT SAMPLE PIECE	OF MA	TERIAL A	ND PREFORI	M A HARDNE	SS CHECK	
001 0/11/11 221 1202			SULTS BELOV			
		HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL						
SIZE OF TEST SAMPLE						
HARDNESS / DUROMETER READIN	IG 🗀					
	testers	located in	the Quality Office	e		
QC 18 INSPECTION				ENGINEER	RING SIGNOF	F (if required)
INSPECTED BY: DAS			SIG	NED OFF BY:		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

DATE:

| MT-4140QT-R | RACTONS | APPROVED AISI 4140 Q&T ROUND BAR ВУ DATE DESCRIPTION NEW ISSUE ECA 17-655 PURCHASE MATERIAL: AISI 4140 QUENCHED & TEMPERED STEEL ROUND BAR REV. EG. 5/8" ROUND BAR = MT-4140QT-R0.625 MT-4140QT-R [D:DDD] WHERE "D:DDD" = DIAMETER IN INCHES SPECIFICATION CONTROL DRAWING ASTM 4140 QT or ASTM 4142 QT SPECIFICATION: PART NUMBER: U ۵